FORM FORM To be used or all correspondence	FAL after initial filing)	Application Number Filing Date First Named Invertigation Filing Date First Named Invertigation Filing Date First Named Invertigation Filing Date Attorney Docket Name Eck all that apply)	December 3, 2001 ntor Orest W. Blaschuk 1631
Fee Transmittal Form	Assignment F (for an Applic Drawing(s) Request for C Receipt Licensing-rela Petition Petition to Co Provisional A Power of Atto Revocation, C Corresponded Declaration Statement un 3.73(b) Terminal Disc Small Entity S Request for F	Papers Patation) Corrected Filing ated Papers Invert to a pplication orney, Change of nce Address Ider 37 CFR Claimer Statement Refund Column	of CD(s) After Allowance Communication to Group Appeal Communication to Board of Appeals and Interferences Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) Proprietary Information Status Letter Return Postcard Additional Enclosure(s) (please identify below): Preliminary Amendment Copy of Supplemental Assignment from parent copy of page 1 application as filed Copy of Formalities Letter
Individual Name Qing Lin, Ph.D		T, ATTORNEY, OR	AGENT O0500 PATENT TRADEMARK OFFICE

Date

FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual ravision.

TOTAL AMOUNT OF PAYMENT (\$) 2,119 00 01

Complete if Known				
Application Number	10/006,869			
Filing Date	December 3, 2001			
First Named Inventor	Orest W. Blaschuk			
Examiner Name				
Group Art Unit	1631			
Attorney Docket No.	100086.407C7			

METHOD OF PAYMENT
Payment Enclosed:
Check Credit card Money Order Other
Deposit Account:
Deposit
Account Number 19-1090
Deposit Account Name Seed Intellectual Property Law Group PLLC
The Commissioner is authorized to (check all that apply)
Charge fee(s) indicated below Credit any overpayments
Charge any additional fee(s) during the pendency of this application
Charge fee(s) indicated below, except for the filing fee
Charge any deficiencies
to the above-identified deposit account.
Applicant claims small entity status. See 37 CFR 1.27.
FEE CALCULATION
1. BASIC FILING FEE
Large Entity Small Entity
Fee Fee(\$) Fee Fee(\$) Fee Description
Code Fee Paid 101 740 201 370 Utility filing fee 370
370
106 330 206 165 Design filing fee 107 510 207 255 Plant filing fee
108 740 208 370 Reissue filing fee
114 160 214 80 Provisional filing
fee
SUBTOTAL (1) (\$) 370
2. EXTRA CLAIM FEES
Fee Extra from Fee
Claims below Paid
Total Claims 146 -20** = 126 * 9 = 1134
Independent 8 -3** = 5 * 42 = 210
Multiple Dependent * = 140
Large Entity Small Entity
Fee Fee Fee Fee Description
Code (\$) Code (\$)
103 18 203 9 Claims in excess of 20 102 84 202 42 Independent claims in excess of 3
104 280 204 140 Multiple dependent claim, if not paid
109 84 209 42 ** Reissue independent claims over original patent
110 18 210 9 Reissue claims in excess of 20 and over original patent
SUBTOTAL (2) (\$) 1484
**or number previously paid, if greater; For Reissues, see above

			EEE C	ALCULATION (continued)	_		
3. ADDI	TIONAL	FEES	T LL O	LEGEL HOW (COMMITTEE)			
Large E		Sm	all				
Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid		
105	130	205	65	Surcharge - late filing fee or oath	65		
127	50	227	25	Surcharge - late provisional filing fee or cover sheet.			
139	130	139	130	Non-English specification			
147	2,520	147	2,520	For filing a request for ex parte reexamination			
112	920*	112	920*	Requesting publication of SIR prior to Examiner action			
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action			
115	110	215	55	Extension for reply within first month			
116	400	216	200	Extension for reply within second month	200		
117	920	217	460	Extension for reply within third month			
118	1,440	218	720	Extension for reply within fourth month			
128	1,960	228	980	Extension for reply within fifth month			
119	320	219	160	Notice of Appeal			
120	320	220	160	Filing a brief in support of an appeal			
121	280	221	140	Request for oral hearing			
138	1,510	138	1,510	Petition to institute a public use proceeding			
140	110	240	55	Petition to revive - unavoidable			
141	1,280	241	640	Petition to revive - unintentional			
142	1,280	242	640	Utility issue fee (or reissue)			
143	460	243	230	Design issue fee			
144	620	244	310	Plant issue fee			
122	130	122	130	Petitions to the Commissioner			
123	50	123	50	Petitions related to provisional applications			
126	180	126	180	Submission of Information Disclosure Stmt			
581	40	581	40	Recording each patent assignment per property (times number of properties)			
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))			
149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))			
179	740	279	370	Request for Continued Examination (RCE)			
169	900	169	900	Request for expedited examination of a design application			
Other fee	(specify)					
*Reduce	d by Bas	ic Filing	Fee Pa	subtotal (3) (\$) 265			

	SUBMITTED BY		
Name (Print∕Type)	Qing Lin, Ph.D.	Registration No. Attorney/Agent) See Limited Recognition	
Firm Name/ Address			00500
Signature	guy to	Date 5/2/02	PATENT TRADEMARK OFFICE

PATENT



Applicants

Orest W. Blaschuk et al.

Application No.

10/006,869

Filed

December 3, 2001

For

COMPOUNDS AND METHODS FOR MODULATING

NONCLASSICAL CADHERIN-MEDIATED FUNCTIONS

Art Unit No.

1631

Docket No.

100086.407C7

Date

May 2, 2002

Box Missing Parts Commissioner for Patents Washington, DC 20231

RESPONSE TO NOTICE TO FILE MISSING PARTS OF APPLICATION

Commissioner for Patents:

In response to the Notice to File Missing Parts dated January 7, 2002, please find enclosed the following documents:

Check

Copy of Formalities Letter

Respectfully submitted,

Orest W. Blaschuk et al.

Seed Intellectual Property Law Group PLLC

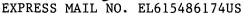
Qing Lin, Ph.D.

(See Limited Recognition in File)

D:\NrPortbl\iManage\JUDIB\280219 1.DOC









United States Patent and Trademark Office

COMMISSIONER FOR PATENTS UNITED STATES PATENT AND TRADEMARK OFFICE Washington, D.C. 20231 www.uspto.gov

APPLICATION NUMBER FILING/RECEIPT DATE FIRST NAMED APPLICANT ATTORNEY DOCKET NUMBER

10/006,869

12/03/2001

Orest W. Blaschuk

100086.407C7

CONFIRMATION NO. 1299

FORMALITIES LETTER

OC000000007273926*

Date Mailed: 01/07/2002

00500 AND SROUP PLLC SEED INTELLECTUAL PROPER 701 FIFTH AVE **SUITE 6300** SEATTLE, WA 98104-7092

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given TWO MONTHS from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing. Applicant must submit \$ 370 to complete the basic filing fee for a small entity.
- Total additional claim fee(s) for this application is \$4676.
 - \$3780 for 420 total claims over 20.
 - \$756 for 18 independent claims over 3.
 - \$140 for multiple dependent claim surcharge.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(I) of \$65 for a small entity in compliance with 37 CFR 1.27, must be submitted with the missing items identified in this letter.
- The balance due by applicant is \$ 5111.

A copy of this notice <u>MUST</u> be returned with the reply.

Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE

88888

05/06/2002 SDENBOB1 00000097 10006869

SUPPLEMENTAL ASSIGNMENT

WHEREAS, we, Orest W. Blaschuk, James Matthew Symonds, and Barbara J. Gour (hereinafter referred to as ASSIGNORS), having post office addresses of 4998 De Maisonneuve West, Suite 1520, Westmount, Quebec, Canada H3Z 1N2; 188 Waverley Street, Apt. 303, Ottawa, Ontario, Canada K2P 0V6; and 2890 Donnelly Drive, RR#4 Kemptville, Ontario, Canada K0G 1J0, respectively, are the joint inventors of an invention entitled "COMPOUNDS AND METHODS FOR MODULATING NONCLASSICAL CADHERIN-MEDIATED FUNCTIONS," which is described and claimed in the specification and claims of U.S. Application No. 09/187,859, which we filed in the United States Patent and Trademark Office on November 6, 1998, and for which a patent is sought; this application is a continuation-in-part of U.S. Patent Application No. 09/073,040, filed May 5, 1998, currently pending.

WHEREAS, Adherex Technologies Inc. (hereinafter referred to as ASSIGNEE), having a place of business at 600 Peter Morand Crescent, Suite 340, Ottawa, Ontario, Canada K1G 5Z3, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer and sale not been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

· · · · · · · · · · · · · · · · · · ·		
Jun	28th 1999	MW Bleschile
Date	1	Orest W. Blaschuk
	I certify that I know	or have satisfactory evidence that Orest W. Blaschul
signed this i	nstrument of his own fr	ee will, as a voluntary act for the uses and purpose
mentioned in	the instrument.	
June	2FH 1999	N. Mui

June	24, 1999	M.,	Mue		
Date	,	Witness			
June	28th 1999	MS.(·
Date	•	James Matthew Syn	monds	3	
	I certify that I know or	have satisfactory ev	vidence that	James	Matthew

I certify that I know or have satisfactory evidence that James Matthew Symonds signed this instrument of his own free will, as a voluntary act for the uses and purposes mentioned in the instrument.

June	26th 1999	
Date	, , , , , , , , , , , , , , , , , , , ,	Witness
June	20th 1999	Barbara & Your
Date	,	Barbara J. Gour

I certify that I know or have satisfactory evidence that Barbara J. Gour signed this instrument of her own free will, as a voluntary act for the uses and purposes mentioned in the instrument.

June	28th	1999	(Y.M	ii	
Date	7		Witness	·		

U:\AnnK\100086\407c1\Assignment.doc (100086:407c1)

1

COMPONIOS AND METHODS FOR MODULATING NONCLASSICAL CADHERIN-MEDIATED FUNCTIONS

CROSS-REFERENCE TO RELATED APPLICATION

This application is a continuation-in-part of U.S. Patent Application No. 09/073,040, filed May 5, 1998.

TECHNICAL FIELD

5

10

15

20

25

30

The present invention relates generally to methods for modulating nonclassical cadherin-mediated functions, and more particularly to the use of modulating agents derived from nonclassical cadherin cell adhesion recognition sequences for inhibiting or enhancing functions mediated by nonclassical cadherins.

BACKGROUND OF THE INVENTION

Cadherins are a rapidly expanding superfamily of calcium-dependent cell adhesion molecules (CAMs) (for review, see Munro et al., In: Cell Adhesion and Invasion in Cancer Metastasis. P. Brodt, ed., pp. 17-34, RG Landes Co., Austin TX, 1996). All cadherins appear to be membrane glycoproteins that generally promote cell adhesion through homophilic interactions (a cadherin on the surface of one cell binds to an identical cadherin on the surface of another cell), although cadherins also appear to be capable of forming heterotypic complexes with one another under certain circumstances and with lower affinity.

There are many different types of cadherins. The most extensively studied group of cadherins is known as the classical, or type I, cadherins. Classical cadherins have been shown to regulate epithelial, endothelial, neural and cancer cell adhesion, with different cadherins expressed on different cell types. All classical cadherins have a similar structure. As illustrated in Figure 1A, classical cadherins are composed of five extracellular domains (EC1-EC5), a single hydrophobic domain (TM) that transverses the plasma membrane (PM), and two cytoplasmic domains (CP1 and CP2). The calcium binding motifs DXNDN (SEQ ID NO:1), DXD and LDRE (SEQ ID NO:2) are interspersed throughout the extracellular domains, and each 110 amino acid region that contains such motifs is considered a cadherin repeat. The first extracellular

EXPRESS MAIL NO. EL615486174US

PATENT

MODULATING

N THE UNITED STATES PATENT AND TRADEMARK OFFICE

AND

Applicants

Orest W. Blaschuk et al.

Application No.

10/006,869

Filed

December 3, 2001

For

COMPOUNDS

CONCLUDING A CARLED BANGE BANGE BANGE

NONCLASSICAL CADHERIN-MEDIATED FUNCTIONS

Art Unit No.

1631

METHODS

Docket No.

100086.407C7

FOR

Date

May 2, 2002

Box Missing Parts Commissioner for Patents Washington, DC 20231

REQUEST FOR CORRECTED FILING RECEIPT

Commissioner for Patents:

Attached is a copy of the official Filing Receipt received from the PTO in the above-identified application, for which issuance of a corrected Filing Receipt is respectfully requested.

There is an error with respect to the following data, which is incorrectly entered. There is an error in the omission of the second inventor, which should read:

James Matthew Symonds, Ottawa, Canada

In addition, the title of the application is omitted. It should be listed as follows:

COMPOUNDS AND METHODS FOR MODULATING NONCLASSICAL CADHERIN-MEDIATED FUNCTIONS

The corrections to be made have been marked in red on the enclosed copy of the Filing Receipt. Also enclosed are copies of the Assignment filed in the parent

application, U.S. Application No. 09/187,859, showing the correct names of applicants; along with a copy of page 1 of the application as filed showing the correct title.

Respectfully submitted,

Orest W. Blaschuk et al.

Seed Intellectual Property Law Group PLLC

Qing Lin, PH.D.

(See Limited Recognition in File)

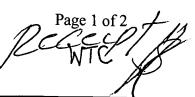
701 Fifth Avenue, Suite 6300 Seattle, Washington 98104-7092

Phone: (206) 622-4900 / Fax: (206) 682-6031

D:\NrPortbl\iManage\JUDIB\280306_1.DOC



EXPRESS MAIL NO. EL615486174US





00500

701 FIFTH AVE

SUITE 6300

SEED INTELLECTUAL PROPERTY

SEATTLE, WA 98104-7092

United States Patent and Trademark Office

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 2023I
www.uspto.gov

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
10/006,869	12/03/2001	1631	0.00	100086.407C7	23	117	22

CONFIRMATION NO. 1299

FILING RECEIPT

OC000000007275420

DECEMBE

Date Mailed: 01/07/2002

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Orest W. Blaschuk, Westmount, CANADA; James Matthew Symonds, Barbara J. Gour, Kemptville, CANADA; Ottawa, Canada

Assignment For Published Patent Application

Adherex Technologies, Inc., Ottawa, ON, CANADA;

Domestic Priority data as claimed by applicant

THIS APPLICATION IS A CON OF 09/187,859 11/06/1998 WHICH IS A CIP OF 09/073,040 05/05/1998

Foreign Applications

If Figured, Foreign Filing License Granted 01/07/2002

Projected Publication Date: To Be Determined - pending completion of Missing Parts

Non-Publication Request: No

Early Publication Request: No

RECEIVED

JAN 1 4 2002

** SMALL ENTITY **

Title

SEED INTERFECTUAL PROPERTY

LAW GROUP PLLC

COMPOUNDS AND METHODS FOR MODULATING MONCLASSICAL CADHERIN-MEDIATED FUNCTIONS

LICENSE FOR FOREIGN FILING UNDER Title 35, United States Code, Section 184 Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations respecially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).